

Preface

An Environmental Impact Statement (EIS) usually is not read like a book — from chapter one to the end. The best way to read an EIS depends on your interests. You may be more interested in effects, whereas others might have more interest in the details of the proposed project or be more concerned about the opportunities that were made available to the public to be involved in the environmental assessment process. Many readers probably just want to know what is being proposed and how it will affect them.

This document follows the format established in the National Environmental Policy Act's regulations (Title 40 Code of Federal Regulations Parts 1500 to 1508). The following paragraphs outline information contained in the chapters and appendices so readers may find the areas of interest without having to read the entire document.

- *Summary*: contains a short, simple discussion to provide the reader and the decision makers with a sketch of the more important aspects of the EIS. The reader can obtain additional, more detailed information from the text of the EIS.
- *Chapter 1 — Purpose and Need*: identifies and describes the purpose of and need for the proposed action, the history of oil and gas in the Powder River Basin, decisions to be made by the agencies, their roles and responsibilities, the National Environmental Policy Act (NEPA) process, and other permits required.
- *Chapter 2 — Public Participation, Issue Identification, and Alternative Development*: describes the Proposed Action, the significant or key issues associated with the Proposed Action, and alternatives, including the no action alternative. The agencies developed action alternatives that meet the purpose and need in response to one or more of the key issues. Alternatives considered but eliminated from detailed consideration are identified along with the rationale for excluding them from the analysis. This chapter also provides a comparative analysis of the environmental effects of the primary alternatives to provide a clear basis of choice among options for the decision maker and the public. The lead agency's preferred alternative is identified.
- *Chapter 3 — Affected Environment*: describes the present condition of the environment that would be affected by implementation of the proposed action or any action alternative.
- *Chapter 4 — Environmental Consequences*: describes the probable direct, indirect, and cumulative effects to the human environment that would result from implementing the Proposed Action or alternatives. The

discussion also addresses the short-term uses versus long-term productivity, unavoidable impacts, and irreversible or irretrievable impacts. Activities that are reasonably foreseeable near the proposed project are identified.

- *Chapter 5 — Land Use Planning and Management*: contains the analysis of the alternatives for conformance with the Resource Management Plans for the Buffalo Resource Area and Platte River and the Land and Resource Management Plan for the Medicine Bow National Forest.
- *Chapter 6 — Consultation with Others*: identifies the agencies, companies, and organizations consulted, as well as the cooperating agencies.
- *Chapter 7 — Preparers and Contributors*: identifies the people involved in research for, writing, and internal review of the draft EIS.
- *Chapter 8 — Distribution and Review of the Draft EIS*: lists the agencies, organizations, and individuals who received a copy of the draft EIS.
- *Chapter 9 — Glossary*: describes the technical terms used in the draft EIS.
- *Chapter 10 — References Cited*: lists the references cited in the draft EIS.
- *Index*: contains cross references and identifies the pages where key topics can be found.
- *Appendices*: contain technical and non-technical information that is important to full comprehension of the NEPA analysis, but that was too long to be included in the primary chapters.

Acronyms and Abbreviations used in this EIS

ADT	Average Daily Traffic
ANC	Acid Neutralizing Capacity
APD	Application for Permit to Drill
AP	Area of Potential Effect
AQD	Air Quality Division
AQRV	Air Quality Related Values
ATV	All-terrain Vehicle
AUM	Animal Unit Month
BACT	Best Available Control Technology
Bbl	Barrel
BBS	Breeding Bird Survey
bcf	Billion Cubic Feet
BFO	Buffalo Field Office
BFOA	Buffalo Field Office Area
BLM	U.S. Department of Interior, Bureau of Land Management
BMP	Best Management Practices
BOE	Barrels of Oil Equivalent
C	Celsius
CAPS	Cooperative Agricultural Pest Survey
CBM	Coal Bed Methane
CEQ	Council on Environmental Quality
CFO	Casper Field Office
CFOA	Casper Field Office Area
CFR	Code of Federal Regulations
cfs	Cubic Feet per Second
CMF	Central Metering Facility
CO	Carbon Monoxide
COA	Conditions of Approval
COE	U.S. Army Corps of Engineers
CREG	Consensus Revenue Estimating Group
CRU	Critical Range
CSU	Controlled Surface Use
CWA	Clean Water Act
dba	Decibels on the A-weighted Scale
DEIS	Draft Environmental Impact Statement
DNA	Documentation of NEPA Adequacy
dV	Deciview
DWS	Drinking Water Standard
EA	Environmental Assessment
EC	Electrical Conductivity
ECw	SAR and Salinity Limit
EIS	Environmental Impact Statement
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act
ET	Evapotranspiration
°F	Degrees Fahrenheit
FAR	Federal Aviation Regulations
FCSMA	Fortification Creek Special Management Agency
FEIS	Final Environmental Impact Statement

FERC	Federal Energy Regulatory Commission
FIRE	Finance, Insurance, and Real Estate
FLM	Federal Land Manager
FLPMA	Federal Land Policy and Management Act
FS	U.S. Department of Agriculture, Forest Service
GAGMO	Gillette Area Groundwater Monitoring Organization
GAP	Gap Analysis Project
GIS	Geographic Information System
gpm	Gallons per Minute
HP	Horsepower
HAP	Hazardous Air Pollutant
in/hr	Inches per Hour
ISL	In Situ Leach
KGS	Known Geologic Structure
kV	Kilovolt
kWh	Kilowatt Hour
LAC	Level of Acceptable Change
LAD	Land Application Disposal
LN	Lease Notices
LOP	Life of Project
LRPL	Least Restrictive Proposed Limit
LRMP	Land and Resource Management Plan
µeq/L	Milliequivalents per Liter
µg/L	Micrograms per Liter
µg/m ³	Micrograms per Cubic Meter
µhmos/cm	Micromhos per Centimeter
MBbl	Thousand Barrels
MBTA	Migratory Bird Treaty Act
mcf	Thousand Cubic Feet
MDEQ	Montana Department of Environmental Quality
MEI	Maximum Exposed Individual
MLE	Most Likely Exposure
mgd	Million gallons per day
mg/L	Milligrams per Liter
mmcf	Million Cubic Feet
mmhos/cm	Microhmos per centimeter
MMRP	Mitigation, Monitoring, and Reporting Plan
MOC	Memorandum of Cooperation
MPDES	Montana Pollutant Discharge Elimination System
MRPL	Most Restrictive Proposed (Upper) Limit
MRL	Minimum Reporting Level
msl	Mean Sea Level
MW	Megawatt
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Repatriation Act
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NRHP	National Register of Historic Places
NISC	National Invasive Species Council
NL	No Lease
NMP	National Memorial Park

NO _x	Oxides of Nitrogen
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NOS	Notice of Staking
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NSO	No Surface Occupancy
NSR	New Source Review
ORV	Off-road Vehicle
PAR	Parturition Areas (Habitat)
PFYC	Probable Fossil Yield Classification
PM ₁₀	Inhalable Particulate Matter less than 10 microns in effective diameter
PM ₂₅	Fine Particulate Matter less than 2.5 microns in effective diameter
POD	Plan of Development
ppm	Parts per Million
PRB	Powder River Basin
PRRA	Powder River Resource Area
PSD	Prevention of Significant Deterioration
psi	Pounds per Square Inch
R&PP	Recreation and Public Purpose
RA	Recreation Area
RFD	Reasonably Foreseeable Development
RFFA	Reasonable Foreseeable Future Actions
RMP	Resource Management Plan
RMU	Resource Management Unit
ROD	Record of Decision
ROS	Recreational Opportunity Spectrum
ROW	Right-of-Way
SAR	Sodium Adsorption Ratio
SCS	Soil Conservation Service
SDDENR	South Dakota Department of Environment and Natural Resources
SHPO	State Historic Preservation Office
SIO	Scenic Integrity Objectives
SJB	San Juan Basin
SMA	Special Management Area <i>or</i> Surface Management Agency
SLT	Standard Lease Terms
SO _x	Sulfur Dioxide
SPCC	Spill Prevention Control and Countermeasures
SSC	Species of Special Concern
SSF	Spring-Summer-Fall (Habitat)
STIP	Surface Transportation Improvement Plan
SUP	Special Use Permit
SUPO	Surface Use Plan of Operations
SWPPP	Storm Water Pollution Prevention Plan
SWR	Severe Winter Relief (Habitat)
SWQATR	Surface Water Quality Analysis Technical Report
TBNG	Thunder Basin National Grassland

tcf	Trillion Cubic Feet
TCP	Traditional Cultural Properties
TCU	Transportation, Communication, and Utilities
TDS	Total Dissolved Solids
TIE	Toxicity Identification Evaluation
TL	Timing Limitation
TMDL	Total Maximum Daily Load
TSS	Total Suspended Solids
USC	United States Code
USDA	U.S. Department of Agriculture
USDC	U.S. Department of Commerce
USDI	U.S. Department of the Interior
USDOT	U.S. Department of Transportation
USDW	Underground Sources of Drinking Water
USFWS	U.S. Department of Interior, Fish and Wildlife Service
USGS	U.S. Department of the Interior, Geological Survey
VOC	Volatile Organic Compound
VQO	Visual Quality Objective
VRM	Visual Resource Management
WAAQS	Wyoming Ambient Air Quality Standards
WDEQ	Wyoming Department of Environmental Quality
WDOE	Wyoming Department of Employment
WDOT	Wyoming Department of Transportation (also WYDOT)
WEMA	Wyoming Emergency Management Agency
WGFD	Wyoming Game and Fish Department
WHMA	Wildlife Habitat Management Area
WIA	Walk-in Area
WIN	Winter (Habitat)
WOGCC	Wyoming Oil and Gas Conservation Commission
W&P	Weed and Pest
WSA	Wild and Scenic Area <i>or</i> Wilderness Study Area
WSEO	Wyoming State Engineer's Office
WSGS	Wyoming State Geological Survey
WSR	Wild and Scenic River
WWRDS	Wyoming Water Resources Data System
WWTP	Wastewater Treatment Plant
WYL	Winter-Yearlong (Habitat)
YRL	Yearlong (Habitat)